ORDER NO. MD9206051C8

Service Manual

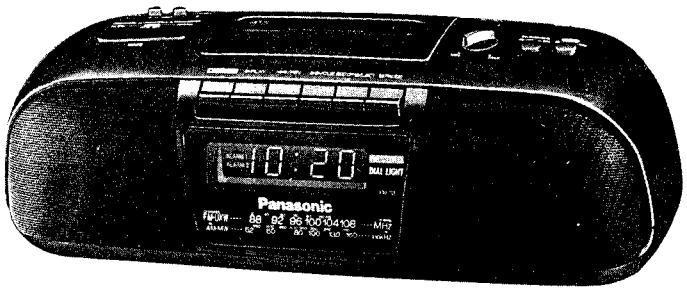
Clock Radio Cassette Player

Radio Cassette

RC-X260

Colour

(K) . . . . . Black Type



Area

Suffix for Model No.	Area	Colour
(EB)	Great Britain	(K)
(EG)	F.R.Germany & Italy	
(GN)	Oceania	

■ SPECIFICATIONS

General:

Power Requirement:	AC; 230~240V, 50Hz Battery; 9V (006P/6F22) for battery backup
Power Consumption:	11W
Power Output:	3.0 W (1.5W x 2)... (RMS max.)
Speaker:	8cm (3") x 2 PM Dynamic Speaker (8Ω)
Jack:	Output; Headphones; Ø3.5, 16~32Ω Input; MIC
Dimensions(WxHxD):	346 x 113 x 152mm (13⅝" x 4⁷⁄₁₆" x 6")
Weight:	1.80 kg (3 lbs 15oz) without battery

Radio Section:

Radio Frequency Range:	FM; 88 ~ 108MHz AM; 525 ~ 1610kHz (EB/EG) AM; 525 ~ 1710kHz (GN)
Intermediate Frequency:	FM; 10.7MHz AM; 455kHz
Sensitivity:	FM; 21dB/50 mW output (EB/EG) FM; 20 dB/50 mW output (GN) (-3 dB Limit Sens.) AM; 50 dB/m/50 mW output

Tape Deck Section:

Frequency Response:	50 ~ 14000Hz (with normal tape)
Recording System:	AC bias, Magnet erase
Tape Speed:	4.8cm/s (1⅞ips)
Track System:	Stereo

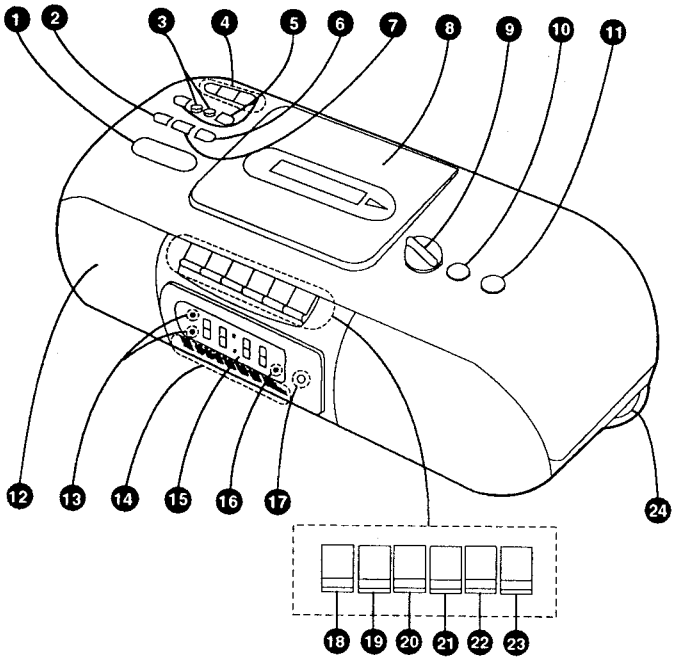
Notes:

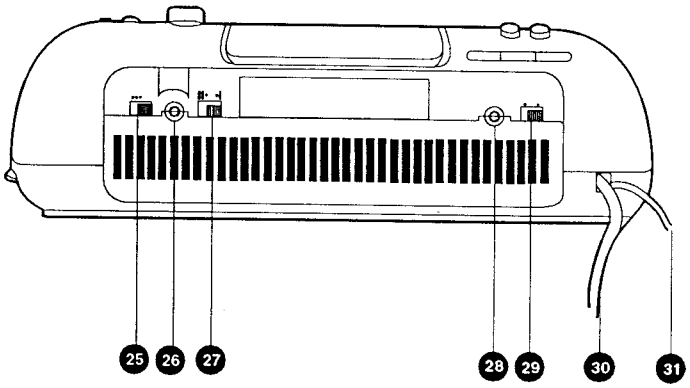
1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic

■CONTENTS

■LOCATION OF CONTROLS

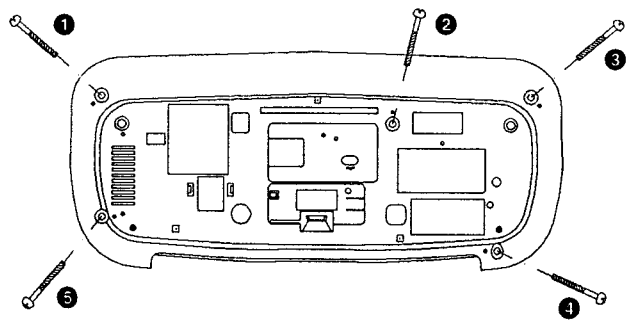




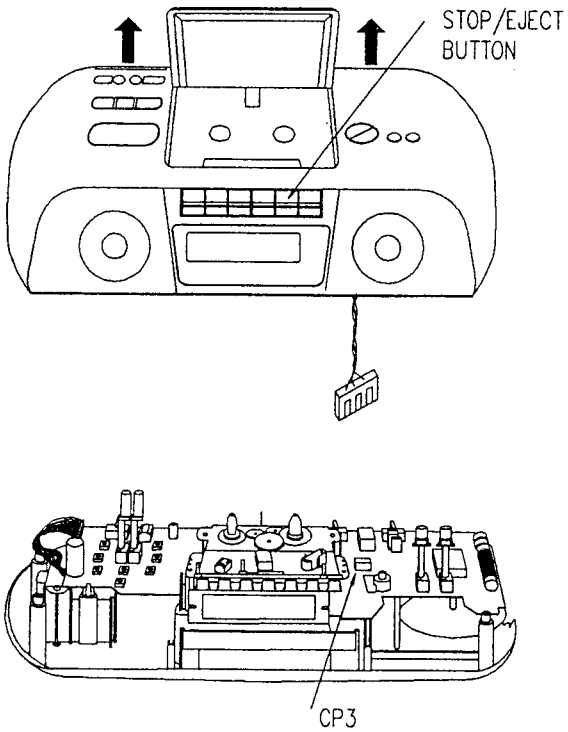
1. Doze button (DOZE)
2. Sleep button (SLEEP)
3. Alarm 1 and 2 select buttons
4. Time set buttons (TIME SET)
5. Alarm 1 and 2 display/adjust buttons (DISP/ADJ)
6. Radio button (RADIO)
7. Off/time set button (OFF TIME SET)
8. Cassette compartment cover
9. Volume control (VOLUME)
10. Ambience button (AMBIENCE)
11. XBS button (XBS)
12. Speakers
13. Alarm 1 and 2 indicators
14. Radio dial display
15. Clock display
16. PM indicator (For EB,GN only)
17. FM stereo indicator (FM ST)
18. Record button (● RECORD)
19. Play button (▶ PLAY)
20. Rewind/review button (◀◀ /REV)
21. Fastforward/cue button (▶▶ /CUE)
22. Stop/eject button (■ STOP/ ▲ EJECT)
23. Pause button (▮▮ PAUSE)
24. Tuning control (TUNING)
25. Band selector (BAND)
26. Headphones jack (∩)
27. Beatproof selector (BEATPROOF)
28. Microphone jack (MIC)
29. Brightness selector (BRIGHTNESS)
30. AC power cord
31. FM antenna cord

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1	Removal of the Upper Cabinet
Procedure 1	

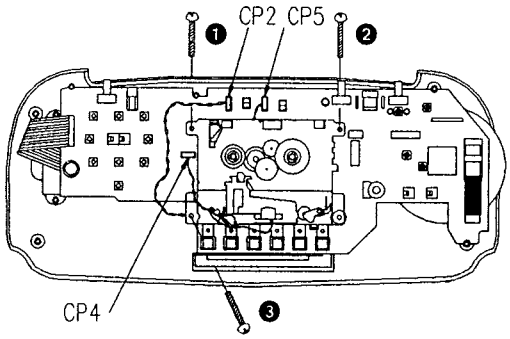


1. Remove 5 screws (❶ ~ ❺).



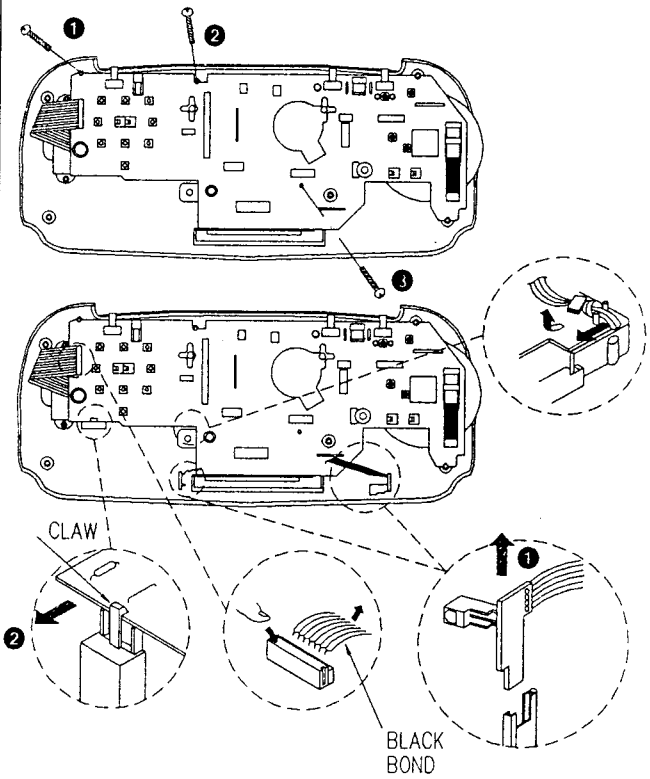
2. Press the Stop/eject button.
3. Remove the upper cabinet in the direction of arrow.
4. Remove the connector (CP3).

Ref. No. 2	Removal of the Mechanism Unit
Procedure 1 → 2	



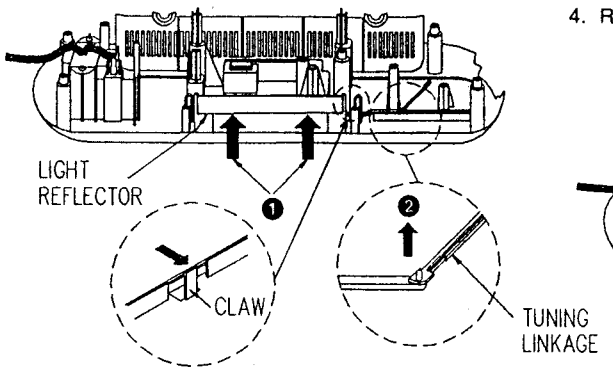
1. Remove 3 screws (❶ ~ ❸).
2. Remove 3 connectors (CP2, CP4, CP5).

Ref. No. 3	Removal of the Main P.C.B.
Procedure 1 → 2 → 3	

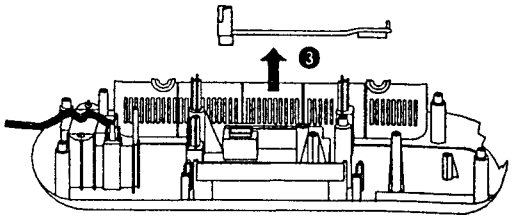


1. Remove 3 screws (❶ ~ ❸).
2. Remove 2 L.E.D. P.C.B. in the direction of arrow ❶.
3. Release the black bond.
4. Release the claw in the direction of arrow ❷.
5. Release the battery wire.

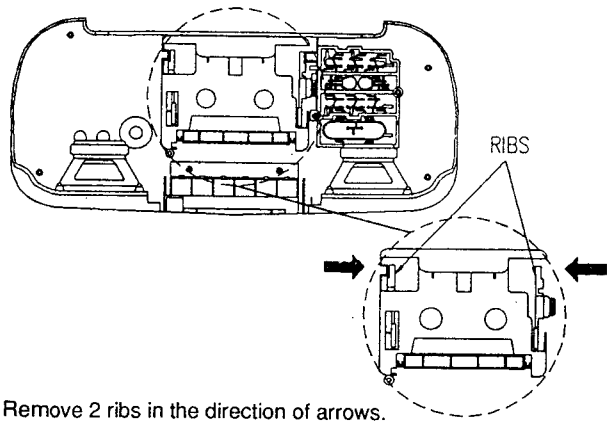
Ref. No. 4	Removal of the Dial Pointer
Procedure 1 → 2 → 3 → 4	



1. Remove the light reflector in the direction of arrow ❶.
2. Remove the tuning linkage in the direction of arrow ❷.
3. Release the claw.
4. Remove the dial panel in the direction of arrow ❸.

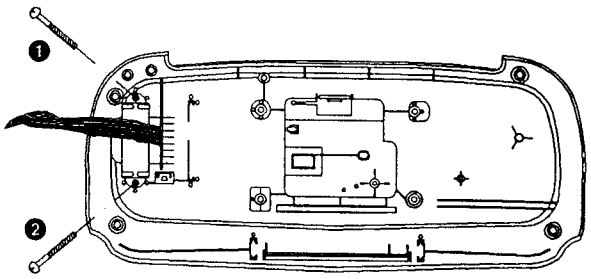


Ref. No. 5	Removal of the Cassette Compartment
Procedure 1 → 5	



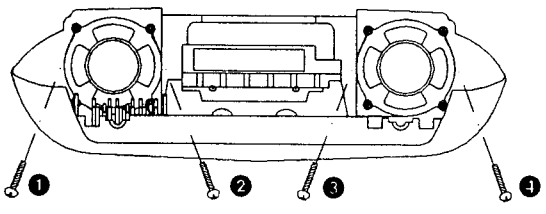
• Remove 2 ribs in the direction of arrows.

Ref. No. 6	Removal of the Power Transformer
Procedure 1 → 2 → 3 → 6	



1. Remove 2 screws (❶, ❷).
2. Remove the shield plate.

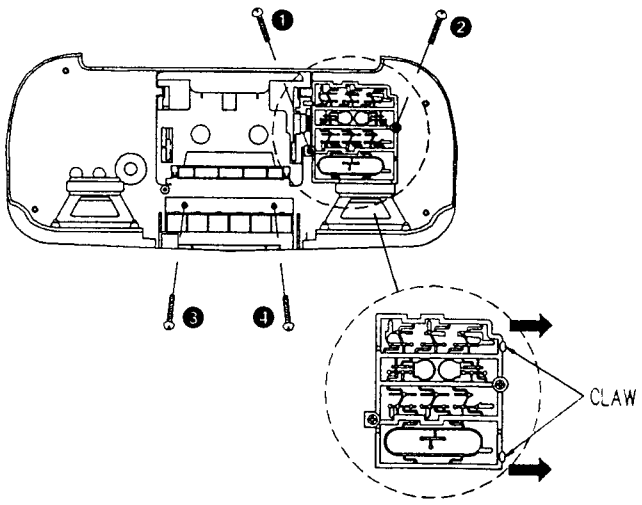
Ref. No. 7	Removal of the Speaker
Procedure 1 → 7	



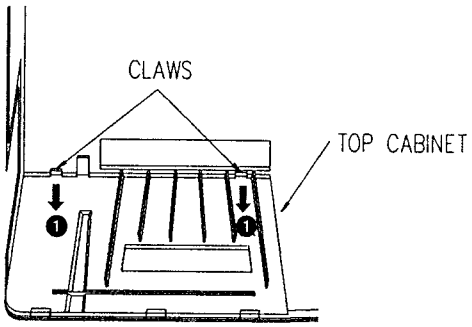
• Remove 4 screws (❶ ~ ❹).

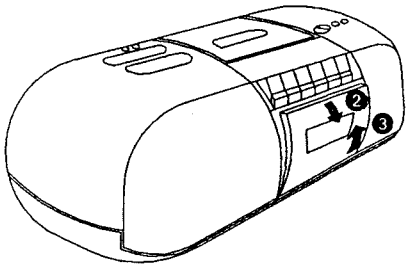
Ref. No. 8	Removal of the Function & Mechanism Buttons
Procedure 1 → 8	

1. Remove 2 screws (❶, ❷).
2. Release 2 claws in the direction of arrow.
3. Remove the function buttons.
4. Remove 2 screws (❸, ❹).
5. Remove the mecha buttons.



Ref. No. 9	Removal of the Dial Panel
Procedure 1 → 9	





1. Release the claws in the direction of arrow ❶.
2. Remove the dial panel in the direction of arrow ❷ & ❸.

* To set the Dial pointer.

1. Move the dial pointer to max. position in the direction of arrow (Fig. 1).
2. Turn the tuning knob clockwise completely (Fig. 2).
3. Install the main P.C.B. (Fig. 3).

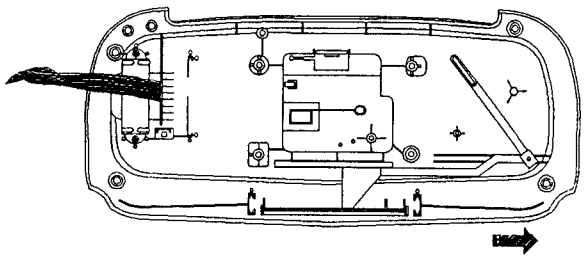


Fig. 1

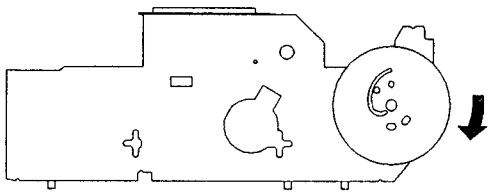


Fig. 2

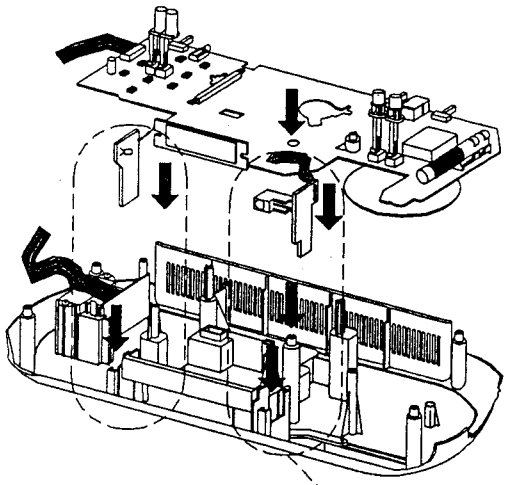
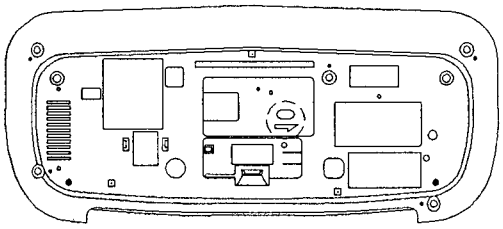


Fig. 3



When the tape is caught in the pinch roller, etc. Release the tape by turning the pulley on the motor with the screw driver in the direction of the arrow.

Notes :

- S1 : Time set switch. (REV)
- S2 : Time set switch. (FAST)
- S3 : Time set switch. (FWD)
- S4 : Alarm 1 display/adjustment switch. (DISP/ADJ)
- S5 : Alarm 2 display/adjustment switch. (DISP/ADJ)
- S6 : Sleep switch. (SLEEP)
- S7 : Off switch. (TIME SET)
- S8 : Radio on switch. (RADIO)
- S9 : Doze switch. (DOZE)
- S10 : Alarm 1 in "OFF" position. (OF...OFF, T...TAPE/RADIO)
- S11 : Alarm 2 in "OFF" position. (OF...OFF, B...BUZZER)
- S12 : Ambience switch. (AMBIENCE)
- S13-1, 13-2 : Low boost switch in "ON" position. (ON...ON, OF...OFF)
- S14-1, 14-2 : Band select switch in "AM" position. (FM ST...FM STEREO, AM...AM,.FM...FM)
- S15-1, 15-2 : Brightness select switch in "HIGH" positon. (H...HIGH, L...LOW)
- S16 : Beatproof switch.
- S17-1~17-6 : Record/playback switch in "PLAYBACK" position. (P...PLAYBACK, R...RECORD)
- S18 : Motor switch
- VR1 : FM VCO adjustment VR.
- VR2 : Volume control VR.
- VR3 : Clock back-up osc control VR.

- DC voltage measurement are taken with electronic voltmeter.The negative terminal of the battery provides negative meter connection point.

No mark...Tape (playback) mode [ ]...Tape (Recording) mode
< >...FM mode ( )...AM mode

Battery Current : Vol. min.....50mA (RADIO)
.....60mA (TAPE PLAYBACK)
Vol.max.....70mA (RADIO)
.....70mA (TAPE PLAYBACK)
Recording.....60mA

(Measurement instruction
Radio: FM 60dB, 30% MOD
AM 74dB/m, 30% MOD
Tape : 315Hz, 0dB)

- Important safety notice :
Component identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- **The schematic diagram may be modified at any the time with the development of new techology.**

■ SCHEMATIC DIAGRAM (Parts List on Pages 17 ~ 19, 23 & 24)

... FM SIGNAL LINE ... PLAYBACK SIGNAL LINE ... RECORD SIGNAL LINE

A MAIN CIRCUIT

SL204230TG..EG
SL204227TG..EB/GN
LED DISPLAY

IC1
LM8562
CLOCK LSI

Q14
2SA564RTA
SWITCHING

IC7
BU4066B
SWITCHING

Q1,
2SA952LTA
POWER SUPPLY CONTROL

IC2
BA3312N
PRE/REC AMP

IC4
AN7205
FM FRONT-END

Q8
2SC1684STA
SWITCHING
(BEAT PROOF)

Q9
2SC1684STA
BIAS OSC

IC3
RVIBA6433
AMBIENCE

Q10, Q11
2SC1684STA
LOW BOOST AMP

Q5
2SC2001KTA
REGULATOR

Q6
2SA564RTA
POWER SUPPLY

B POWER SUPPLY CIRCUIT

△ AC 230-240V (50Hz)

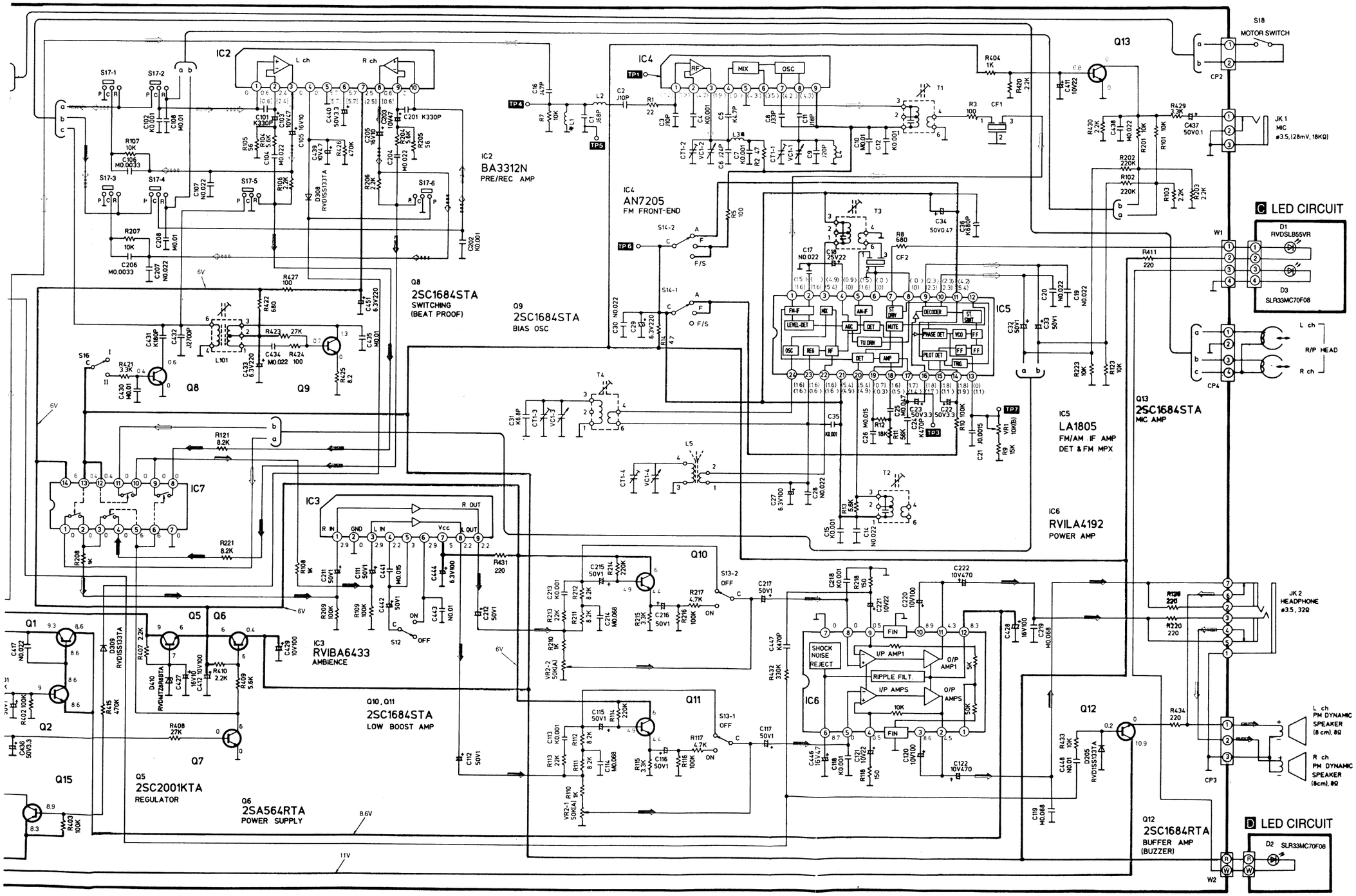
BACK-UP BATTERY
"6F22" SIZE 9V

MOTOR

RC-X260

6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14

FM SIGNAL LINE ... PLAYBACK SIGNAL LINE ... RECORD SIGNAL LINE ... FM/PLAYBACK SIGNAL LINE ... +B LINE



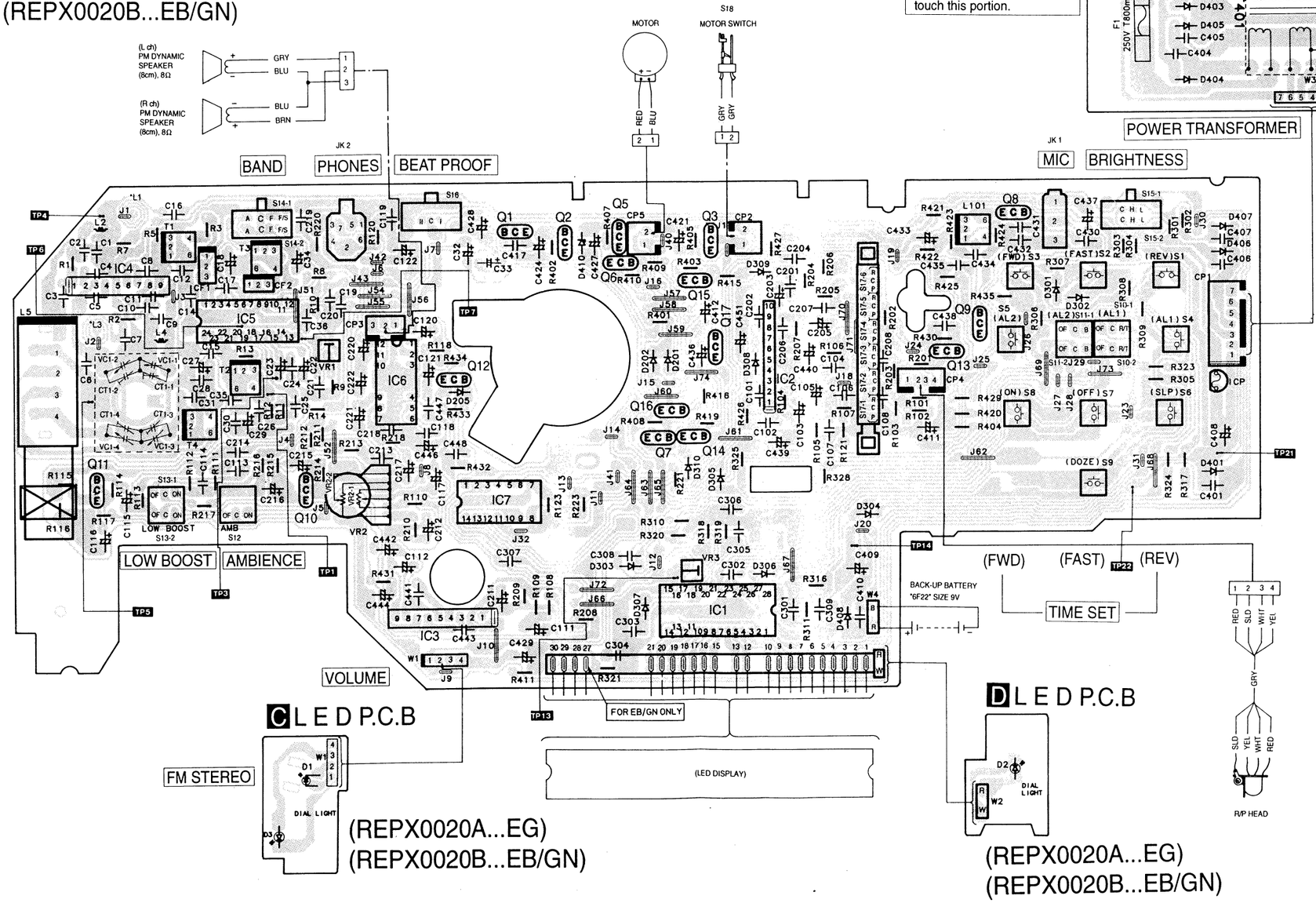
■ P.C.B. & WIRING CONNECTION

1 2 3 4 5 6 7 8 9

A B C D E F

A MAIN P.C.B
(REPX0020A...EG)
(REPX0020B...EB/GN)

B POWER SUPPLY P.C.B (REPX0020A...EG)
(REPX0020B...EB/GN)



C L E D P.C.B

(REPX0020A...EG)
(REPX0020B...EB/GN)

D L E D P.C.B

(REPX0020A...EG)
(REPX0020B...EB/GN)

■ FU

● IC1 (

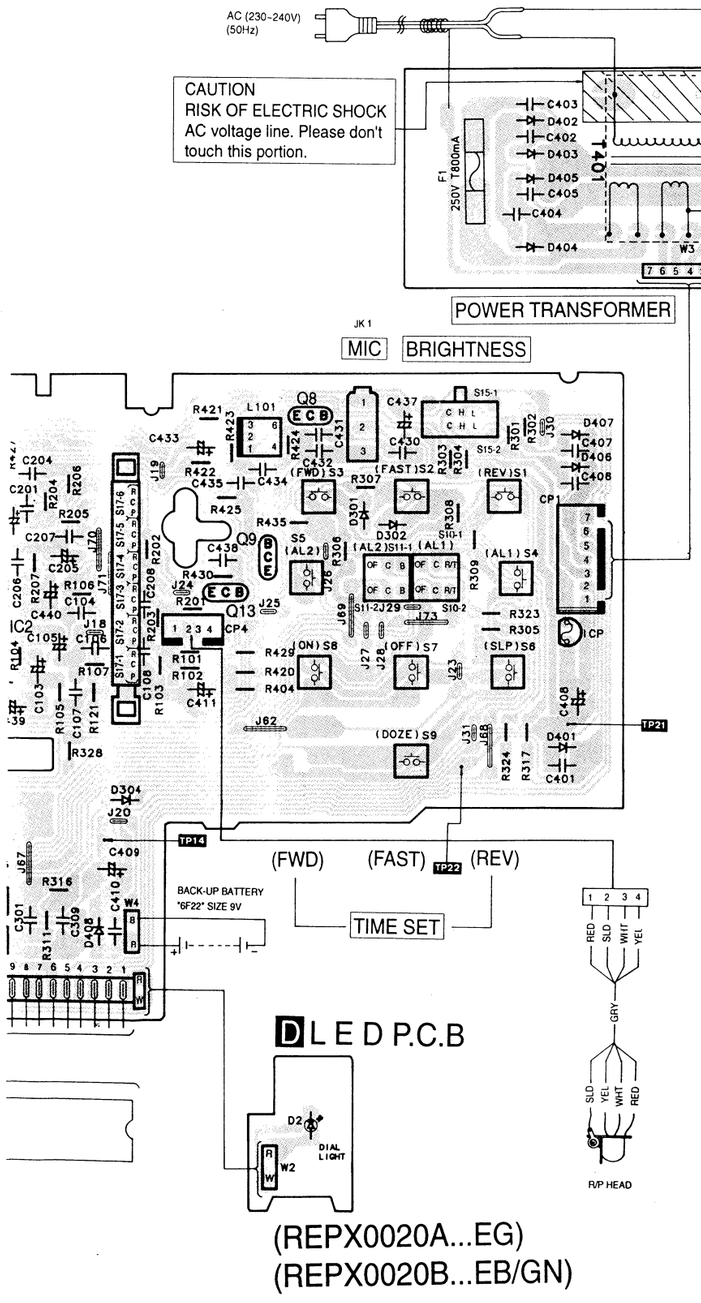
Pin No.	
1	
2 ~ 13	
14	
15	
16	
17	
18	
19	

■ DI

SI

6 7 8 9

B POWER SUPPLY P.C.B (REPX0020A...EG)
(REPX0020B...EB/GN)



D L E D P.C.B

(REPX0020A...EG)
(REPX0020B...EB/GN)

■ FUNCTION OF IC TERMINALS

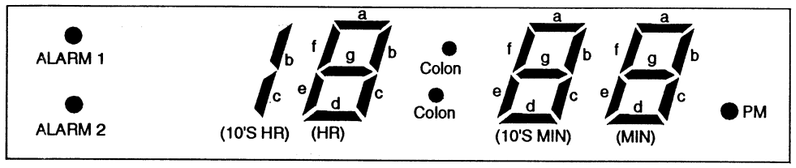
● IC1 (LM8562)

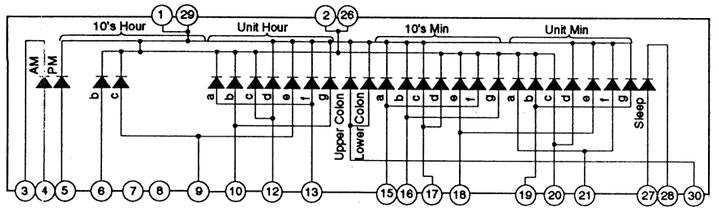
Pin No.	Mark	I/O	Function
1	S0	—	————
2 ~ 13	S1 ~ S12	O	Segment signal for LED Display
14	S13	—	————
15	VSS	I	Power supply
16	CR OSC	O	Oscillating signal output (2.4KHz)
17	S P/D	I	Speed/power down signal select input
18	DC OUT	O	Radio on signal output
19	A1 OUT	O	Alarm 1 signal ouput

Pin No.	Mark	I/O	Function
20	A2 OUT	O	Alarm 2 signal output
21	A DSP	I	Alarm display signal select input
22	T SET IN	I	Time set input
23	ON/OFF	I	Radio ON/OFF signal select input
24	SLP/DOZ	I	Sleep/Doze signal select input
25	50/60	I	Input terminal for noise filter circuit
26	MODE	I	Mode selection input
27	TSET	I	Current time set input
28	VDD	—	GND

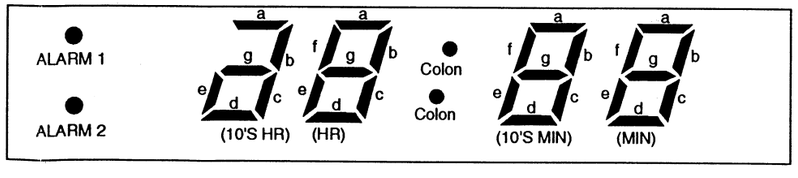
■ DESCRIPTION OF DISPLAY

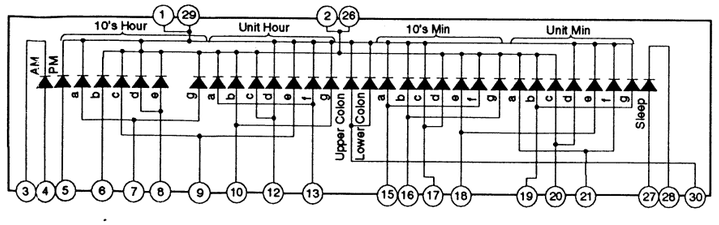
SL204227TG (For EB,GN only)





SL204230TG (For EG only)





■ MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ADJUSTMENT	
1. Set volume control to maximum. 2. Set band switch to MW or FM ST. 3. Set radio on swtich to ON or OFF. 4. Set ambience switch to OFF.	5. Set low boost switch to OFF. 4. Set power source voltage to 15V DC. 5. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM ADJUSTMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT POINT	REMARKS
CONNECTIONS	FREQUENCY				
• AM-IF ADJUSTMENT					
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	459kHz 30% Mod. at 400Hz	Point of non-interference.(on/ about 600kHz)	Headphones Jack (16 ~ 32Ω) (Fabicate the plug as shown in Fig.5 and then connect the lead wires of the plug to the measuring instrument.)	T3 (AM IFT)	Adjust for maximum output.
• MW-RF ADJUSTMENT					
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	511kHz (EB/GN) 516kHz(EG)	Tuning capacitor fully closed.	"	T4 (MW OSC coil)	Adjust for maximum output.
"	1650kHz(EB/GN) 1636kHz(EG)	Tuning capacitor fully open.	"	CT1-3 (MW OSC Trimmer)	Adjust for maximum output.
"	550kHz	Tune to signal	"	[*1] L5 (MW ANT coil)	Adjust for maximum output. Adjust L5 by moving coil bobbin along ferrite core.
"	1500kHz	"	"	CT1-4 (MW ANT Trimmer)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

■ FM ADJUSTMENT

SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT POINT	REMARKS
CONNECTIONS	FREQUENCY				
• FM-IF ADJUSTMENT					
Connect to test point TP4 through ceramic capacitor. Negative side to test point TP5 .	10.7MHz (Sweep)	Point of non-interference.(on/ about 90MHz)	Connect vert. amp. of scope to test point TP3 . Negative side to test point TP2 .	T1 (FM 1st IFT)	Waveform is shown in Fig. 1
"	"	"	"	T2 (FM 2nd IFT)	Waveform is shown in Fig. 2
• FM-RF ADJUSTMENT					
Connect to test point TP1 through FM dummy antenna. Negative side to test point TP5 .	86.2MHz(EB/GN) 87.35MHz(EG)	Variable capacitor fully closed.	Headphones Jack (16 ~ 32Ω) (Fabicate the plug as shown in Fig.5 and then connect the lead wires of the plug to the measuring instrument.)	L4 (FM OSC coil)	[*2] Adjust for maximum output.
	109.2MHz(EB/GN) 108.25MHz(EG)	Variable capacitor fully open.	"	CT1-1 (FM OSC Trimmer)	"
	106 MHz	Tune to signal.	"	CT1-2 (FM ANT Trimmer)	"
[*2] Three output response will be present; proper tuning is the center frequency.					

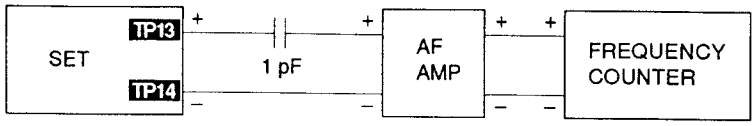
■ SEPARATION ALIGNMENT

FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	SPECIFICATION	ADJUSTMENT POINT	REMARKS
98 MHz , 60 dB (CW) Connect to test point TP4 through FM dummy antenna. Negative side to TP5	Fig.6	75.8kHz	VR1	Adjust VR1, for 75.8 kHz ± 400 Hz reading on frequency counter.

■ BATTERY BACK-UP CIRCUIT ADJUSTMENT (NOTE : Disconnect AC power cord)

DC POWER SUPPLY		FREQUENCY COUNTER	ADJUSTMENT POINT	REMARKS
CONNECTIONS	VOLTAGE			
(+) Side..... TP22 (–) Side..... TP21	9 Volts	(+) Side..... TP13 (–) Side..... TP14	VR3 (Semi-fixed)	Adjust VR3 for 2400 ± 15Hz on frequency counter reading. [*3, 4, 5]

[*3] Connect 1 pF capacitor to the test point TP13 .
[*4] Amplify its output signal by using AF Amp.
[*5] Measure the frequency.

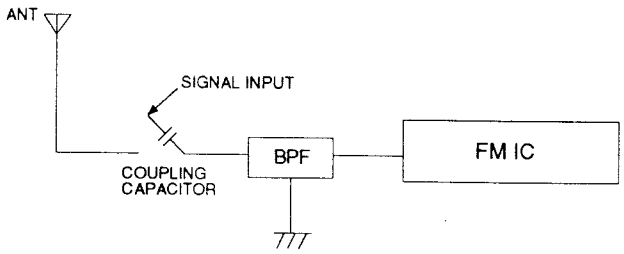


■ TAPE DECK ADJUSTMENT

ITEM	INPUT	EQUIPMENT CONNECTION ELECTRONIC COUNTER	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, -20dB)	Headphones Jack (16 ~ 32Ω) (Fabricate the plug as shown in Fig.5 and then connect the lead wires of the plug to the measuring instrument.)	Maximum output	Azimuth screw	Playback mode (Refer to Fig. 3)
Tape speed	QZZCWAT (3kHz, -10dB)	"	3000 ± 90Hz	Speed adjustment screw	Playback mode (Refer to Fig. 4)

■ FM DATA MEASUREMENT

Note: The FM IC (Mixer) has to be isolated from the antenna when doing FM measurement.
(1) De-soldered one connection of coupling capacitor that is connected to the antenna.
(2) Input the signal directly to the coupling capacitor.
(3) Solder back the capacitor after the data has been taken.



■ ADJUSTMENT POINTS

Please refer to Circuit Board and Wiring Connection Diagram for test points location.

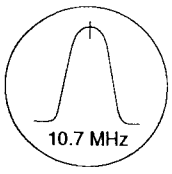


Fig. 1

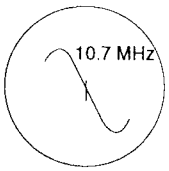


Fig. 2

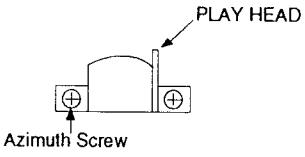


Fig.3

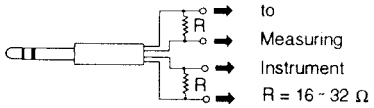


Fig. 5

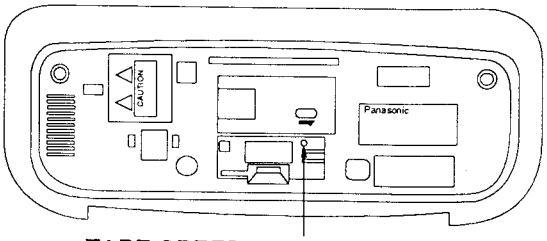


Fig. 4

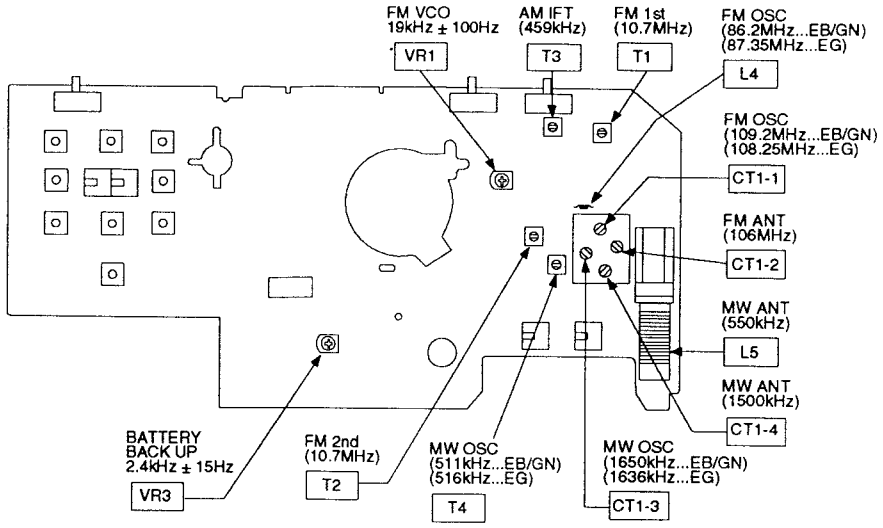


Fig. 7

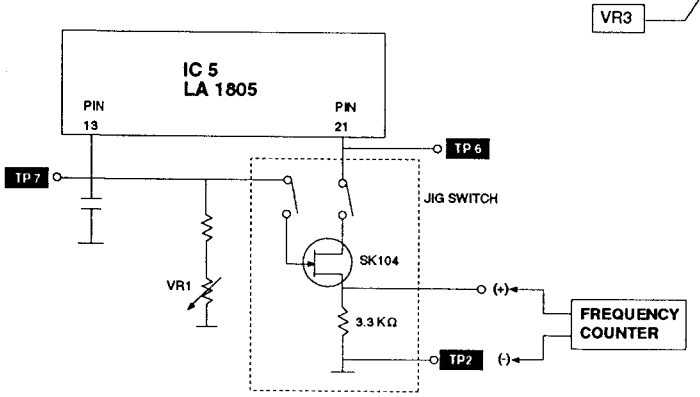


Fig. 6

■TERMINAL GUIDE OF IC'S, TRANSISTORS & DIODES

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 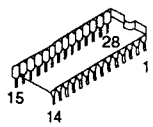
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 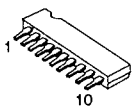
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 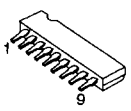
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 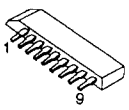
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 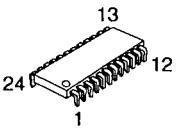
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 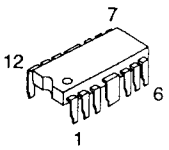
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 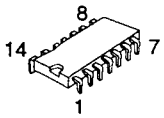
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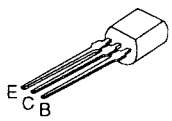
<td colspan="2"> 

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2SC1684RTA
2SC1684STA
2SC2001KTA</td>
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 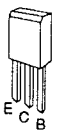
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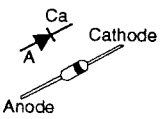
RVD1SR35TR
 
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 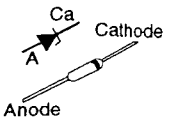
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 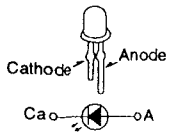
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 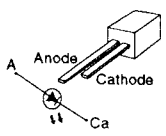
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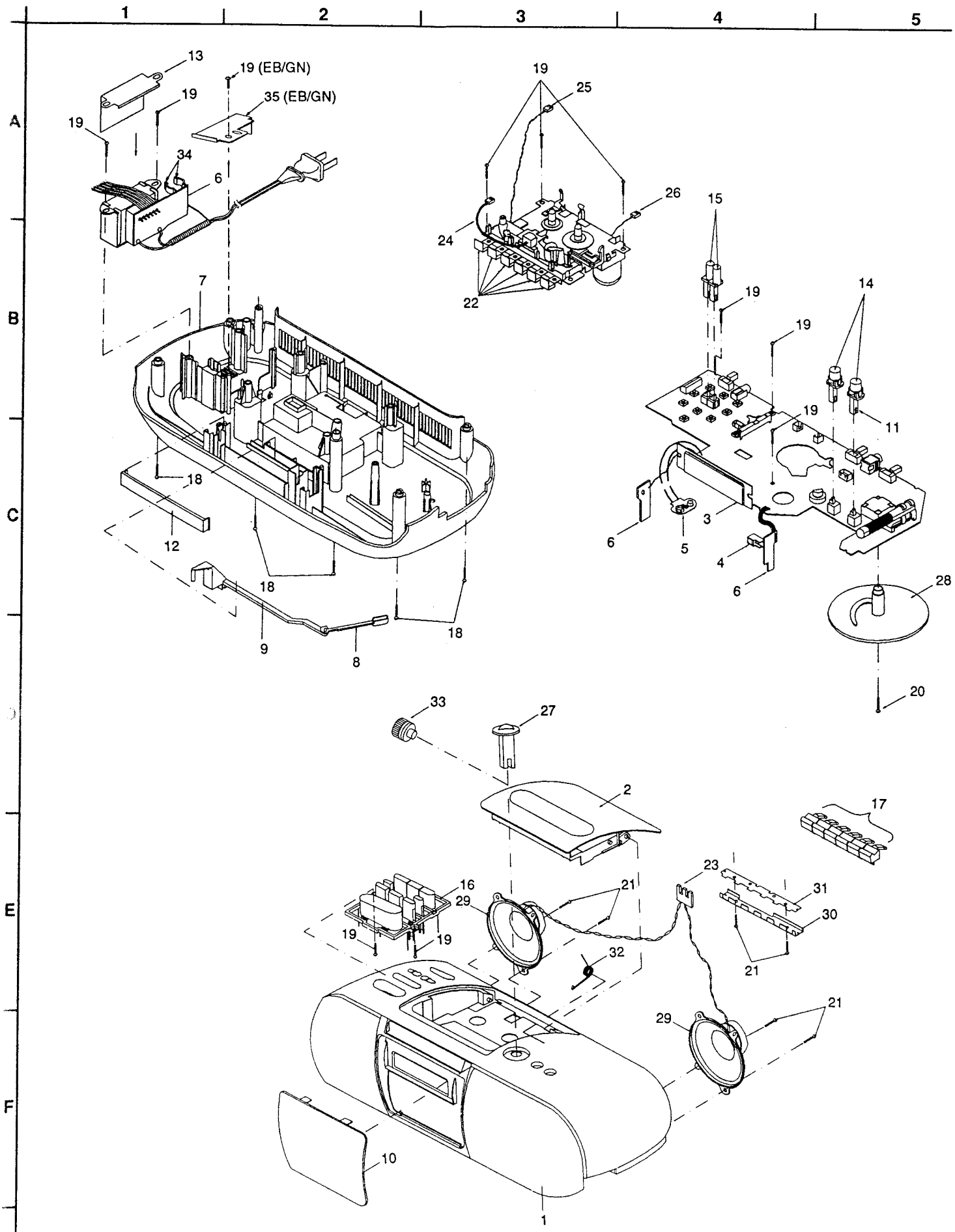
■ CABINET PARTS LOCATION



■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purpose of fire-retartant (resistors), high quality sound (capacitors), low noise (resistors), etc. are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area)
Parts without these indications can be used for all areas.
* [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET & CHASSIS	
1	RFKKRCX260P	TOP CABINET ASS'Y	[M]
2	RFKLRCX260P	CASS LID ASS'Y	[M]
3	SL204227TG	LED DISPLAY	[M] (EB/GN)
3	SL204230TG	LED DISPLAY	[M] (EG)
4	RMNX0001-K	LED HOLDER	[M]
5	RJB5009WA-1	BATTERY SNAP	[M]
6	RJBX0013B	PCB, LED/POWER	[M] (EG)
6	RJBX0013C	PCB, LED/POWER	[M] (EB⚠(GN)
7	RFKHCX260EGK	BOTTOM CABINET ASS'Y	[M] (EG)
7	RFKHCX260EBK	BOTTOM CABINET ASS'Y	[M] (EB)
7	RFKHCX260GNK	BOTTOM CABINET ASS'Y	[M] (GN)
8	RMLX0005	TUNING LINKAGE	[M]
9	RGJX0005-W	POINTER	[M]
10	RKWX0014B-K	DIAL PANEL	[M] (EG)
10	RKWX0014A-K	DIAL PANEL	[M] (EB)
10	RKWX0014-K	DIAL PANEL	[M] (GN)
11	RMUX0003	BUTTON SHAFT	[M]
12	RMQX0004	LIGHT REFLECTOR	[M]
13	RSCX0007	SHIELD PLATE	[M]
14	RGUX0017-H	BUTTON, AMBIENCE/BASS BOOST	[M]
15	RGUX0018-H	BUTTON, ALARM ON/OFF	[M]
16	RGUX0019-H	BUTTON, FUNCTION	[M]
17	RGUX0020-H	BUTTON, MECHA	[M]
18	XTV3+20G-M	SCREW	[M]
19	XTV3+12G-M	SCREW	
20	XYN26+C8	SCREW	
21	XTV3+8G-M	SCREW	
22	RMQX0001-1	MECHA SPACER	[M]
23	REXX0021-2	WIRE ASS'Y, SPEAKER	[M]
24	REXX0022-1	WIRE ASS'Y, HEAD	[M]
25	REXX0023	WIRE ASS'Y, LEAF SWITCH	[M]
26	REXX0024	WIRE ASS'Y, MOTOR	[M]
27	RGWX0007-H	KNOB, VOLUME	[M]
28	RGXX0007-H	KNOB, TUNING	[M]
29	EAS8P143JC3	WOOFER	[M]
30	RMAX0006	ANGLE BAR	[M]
31	RHR3390YA	MECHA BUTTON SEAT	[M]
32	RMBX0005	EJECT SPRING	[M]
33	RDG5874ZB	DAMPER GEAR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
34	RJF28ZA	FUSE HOLDER	
35	RMVX0007	AC CORD SHIELD	[M] (EB/GN)
		INTEGRATED CIRCUIT(S)	
IC1	LM8562	IC, CLOCK LSI	[M]
IC2	BA3312N	IC, PRE/REC AMP	
IC3	RVIBA6433	IC, AMBIENCE	
IC4	AN7205	IC, FM RF	
IC5	LA1805	IC, MPX	[M]
IC6	RVILA4192	IC, POWER AMP	[M]
IC7	BU4066B	IC, SWITCHING	
		IC PROTECTOR(S)	
ICP	RAHICPN10TA	IC PROTECTOR	
		TRANSISTOR(S)	
Q1	2SA952LTA	TRANSISTOR	[M]
Q2	2SC1684RTA	TRANSISTOR	
Q3	2SC2001KTA	TRANSISTOR	
Q5	2SC2001KTA	TRANSISTOR	
Q6	2SA564RTA	TRANSISTOR	
Q7	2SC1684RTA	TRANSISTOR	
Q8	2SC1684STA	TRANSISTOR	
Q9	2SC1684STA	TRANSISTOR	
Q10	2SC1684STA	TRANSISTOR	
Q11	2SC1684STA	TRANSISTOR	
Q12	2SC1684RTA	TRANSISTOR	
Q13	2SC1684STA	TRANSISTOR	
Q14	2SA564RTA	TRANSISTOR	
Q15	2SA564RTA	TRANSISTOR	
Q16	2SC1684STA	TRANSISTOR	
Q17	BA1L4LTA	TRANSISTOR	[M]
		DIODE(S)	
D1	RVDSLB55VR	LED	[M]
D2	SLR33MC70F08	LED	[M]
D3	SLR33MC70F08	LED	[M]
D201	RVD1SS133TA	DIODE	

Ref No.	Part No.	Part Name & Description	Remarks
D202	RVD1SS133TA	DIODE	
D205	RVD1SS133TA	DIODE	
D301	RVD1SS133TA	DIODE	
D302	RVD1SS133TA	DIODE	
D303	RVD1SS133TA	DIODE	
D304	RVD1SS133TA	DIODE	
D305	RVD1SS133TA	DIODE	
D306	RVD1SS133TA	DIODE	
D307	RVD1SS133TA	DIODE	
D308	RVD1SS133TA	DIODE	
D309	RVD1SS133TA	DIODE	
D310	RVD1SS133TA	DIODE	
D401	RVD1SR35TR	DIODE	
D402	RVD1SR35TR	DIODE	
D403	RVD1SR35TR	DIODE	
D404	RVD1SR35TR	DIODE	
D405	RVD1SR35TR	DIODE	
D406	RVD1SR35TR	DIODE	
D407	RVD1SR35TR	DIODE	
D408	RVD1SS133TA	DIODE	
D410	RVDMTZ6R8BTA	DIODE	
		VARIABLE RESISTOR(S)	
VR1	EVNDXAA00B14	VR, FM MPX VCO	
VR2	EVJVCAF15A54	VR, VOL. CONTROL	[M]
VR3	EVNDXAA00B25	VR, CLK BACK UP OSC	
		VARIABLE CAPACITOR(S)	
VC1	RCV4PCT0V-R	VC, TRIMMER	(GN)
VC1	RCV4LCT0V-R	VC, TRIMMER	(EG/EB)
		COIL(S) & TRANSFORMER(S)	
L2	RLQY30S1W	COIL, BPF	[M]
L4	RL04Y209-E	COIL, FM OSC	[M]
L5	RLV2C005-0Z	COIL, AM ANT	[M]
L101	RL09B17-T	COIL, BIAS OSC	
T1	RLI4B153-M	FM IF	
T2	RLI4B153-M	FM IF	
T3	RLI2B471-M	AM IF	[M]
T4	RL02B105-M	AM OSC	
T401	RTP1K2E001-V	POWER TRANSFORMER	[M] (EG) ⚠
T401	RTP1K2B001-V	POWER TRANSFORMER	[M] (EB/GN) ⚠

Ref No.	Part No.	Part Name & Description	Remarks
		FILTER(S)	
CF1	RVF107WDZT	FM CF	
CF2	RVFSFU459B	AM CF	[M] (EB/EG)
CF2	RVFSFU455B	AM CF	(GN)
		FUSE(S)	
F1	XBA2C08TR0	FUSE	⚠
		SWITCH(ES)	
S1	EVQ21405R	SW, TIME SET(REV)	
S2	EVQ21405R	SW, TIME SET(FAST)	
S3	EVQ21405R	SW, TIME SET(FWD)	
S4	EVQ21405R	SW, ALARM 1 DISPLAY/ADJ	
S5	EVQ21405R	SW, ALARM 2 DISPLAY/ADJ	
S6	EVQ21405R	SW, SLEEP	
S7	EVQ21405R	SW, OFF	
S8	EVQ21405R	SW, RADIO ON	
S9	EVQ21405R	SW, DOZE	
S10	ESB6483	SW, ALARM 1	[M]
S11	ESB6483	SW, ALARM 2	[M]
S12	ESB6483	SW, AMBIENCE	[M]
S13	ESB6483	SW, LOW BOOST	[M]
S14	RSS3B31ZA-H	SW, BAND	[M]
S15	RSS2B66ZA-H	SW, BRIGHTNESS	[M]
S16	RSS2A56ZA-H	SW, BEAT PROOF	[M]
S17	RSH2F18ZA-A	SW, REC	
S18	RFA105ZA	SW, MOTOR	[M]
		JACK(S)	
JK1	RJJD3M9ZA-H	JACK, MIC	[M]
JK2	RJJD7S2YA-C	JACK, HP	
		CONNECTOR(S)	
CP1	RJS7T5ZA	CONNECTOR(7P)	
CP2	RJP2G4YA	CONNECTOR(2P)	
CP3	RJP3G4YA	CONNECTOR(3P)	
CP4	RJP4G18ZA	CONNECTOR(4P)	
CP5	RJP2G4YA	CONNECTOR(2P)	

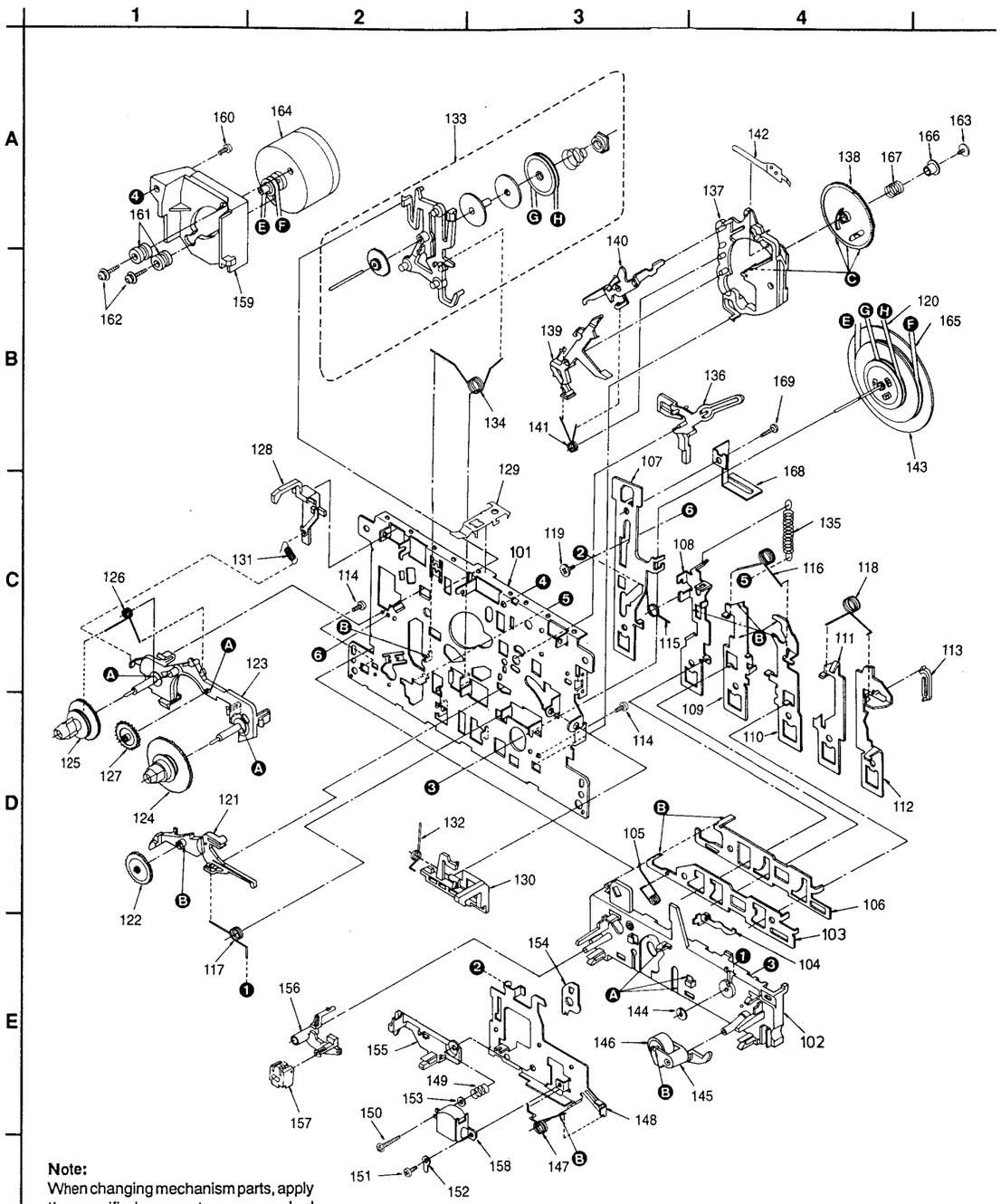
Ref No.	Part No.	Part Name & Description	Remarks
D202	RVD1SS133TA	DIODE	
D205	RVD1SS133TA	DIODE	
D301	RVD1SS133TA	DIODE	
D302	RVD1SS133TA	DIODE	
D303	RVD1SS133TA	DIODE	
D304	RVD1SS133TA	DIODE	
D305	RVD1SS133TA	DIODE	
D306	RVD1SS133TA	DIODE	
D307	RVD1SS133TA	DIODE	
D308	RVD1SS133TA	DIODE	
D309	RVD1SS133TA	DIODE	
D310	RVD1SS133TA	DIODE	
D401	RVD1SR35TR	DIODE	
D402	RVD1SR35TR	DIODE	
D403	RVD1SR35TR	DIODE	
D404	RVD1SR35TR	DIODE	
D405	RVD1SR35TR	DIODE	
D406	RVD1SR35TR	DIODE	
D407	RVD1SR35TR	DIODE	
D408	RVD1SS133TA	DIODE	
D410	RVDMTZ6R8BTA	DIODE	
		VARIABLE RESISTOR(S)	
VR1	EVNDXAA00B14	VR, FM MPX VCO	
VR2	EVJVCAF15A54	VR, VOL. CONTROL	[M]
VR3	EVNDXAA00B25	VR, CLK BACK UP OSC	
		VARIABLE CAPACITOR(S)	
VC1	RCV4PCT0V-R	VC, TRIMMER	(GN)
VC1	RCV4LCT0V-R	VC, TRIMMER	(EG/EB)
		COIL(S) & TRANSFORMER(S)	
L2	RLQY30S1W	COIL, BPF	[M]
L4	RL04Y209-E	COIL, FM OSC	[M]
L5	RLV2C005-0Z	COIL, AM ANT	[M]
L101	RL09B17-T	COIL, BIAS OSC	
T1	RLI4B153-M	FM IF	
T2	RLI4B153-M	FM IF	
T3	RLI2B471-M	AM IF	[M]
T4	RL02B105-M	AM OSC	
T401	RTP1K2E001-V	POWER TRANSFORMER	[M] (EG) ⚠
T401	RTP1K2B001-V	POWER TRANSFORMER	[M] (EB/GN) ⚠

Ref No.	Part No.	Part Name & Description	Remarks
		FILTER(S)	
CF1	RVF107WDZT	FM CF	
CF2	RVFSFU459B	AM CF	[M] (EB/EG)
CF2	RVFSFU455B	AM CF	(GN)
		FUSE(S)	
F1	XBA2C08TR0	FUSE	⚠
		SWITCH(ES)	
S1	EVQ21405R	SW, TIME SET(REV)	
S2	EVQ21405R	SW, TIME SET(FAST)	
S3	EVQ21405R	SW, TIME SET(FWD)	
S4	EVQ21405R	SW, ALARM 1 DISPLAY/ADJ	
S5	EVQ21405R	SW, ALARM 2 DISPLAY/ADJ	
S6	EVQ21405R	SW, SLEEP	
S7	EVQ21405R	SW, OFF	
S8	EVQ21405R	SW, RADIO ON	
S9	EVQ21405R	SW, DOZE	
S10	ESB6483	SW, ALARM 1	[M]
S11	ESB6483	SW, ALARM 2	[M]
S12	ESB6483	SW, AMBIENCE	[M]
S13	ESB6483	SW, LOW BOOST	[M]
S14	RSS3B31ZA-H	SW, BAND	[M]
S15	RSS2B66ZA-H	SW, BRIGHTNESS	[M]
S16	RSS2A56ZA-H	SW, BEAT PROOF	[M]
S17	RSH2F18ZA-A	SW, REC	
S18	RFA105ZA	SW, MOTOR	[M]
		JACK(S)	
JK1	RJJD3M9ZA-H	JACK, MIC	[M]
JK2	RJJD7S2YA-C	JACK, HP	
		CONNECTOR(S)	
CP1	RJS7T5ZA	CONNECTOR(7P)	
CP2	RJP2G4YA	CONNECTOR(2P)	
CP3	RJP3G4YA	CONNECTOR(3P)	
CP4	RJP4G18ZA	CONNECTOR(4P)	
CP5	RJP2G4YA	CONNECTOR(2P)	

Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	RFKSCX260EB	INSTRUCTION MANUAL ASS'Y	[M] (EG)(EB⚠)
A1	RQT1574-L	INSTRUCTION MANUAL	[M] (GN)
A2	RJA23YB-U	AC CORD	[M] (EG) ⚠
A2	RJA87ZB-K	AC CORD	[M] (EB) ⚠
A2	RJA0014-U	AC CORD	[M] (GN) ⚠
		PACKING MATERIAL(S)	
P1	RPH656ZA	MIRAMAT BAG	[M]
P2	RPGX0023	GIFT BOX	[M]
P3	RPNX0005	POLYFOAM	[M]

Ref No.	Part No.	Part Name & Description	Remarks

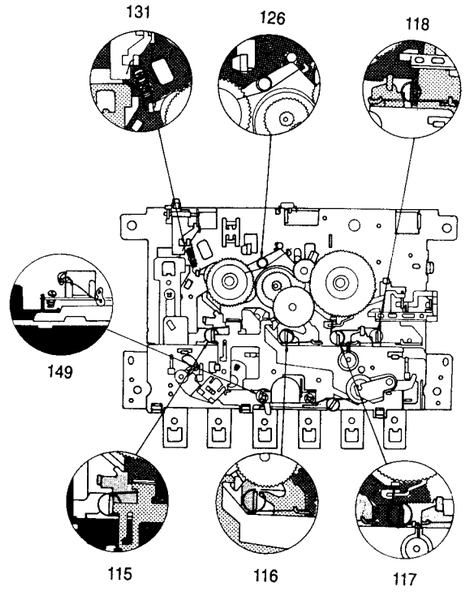
■ MECHANISM PARTS LOCATION (RAA2203)

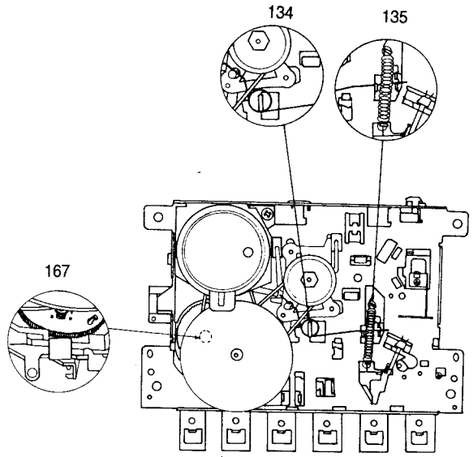


Note:
When changing mechanism parts, apply the specified grease to areas marked as shown in the drawing.

Ref. No.	Part Name	Part No.
Ⓐ	FLOIL G311S	SZZ0L26
Ⓑ	MOLYKOTE EM30L	SZZ0L30
Ⓒ	MOLYKOTE EM50L	SZZ0L25

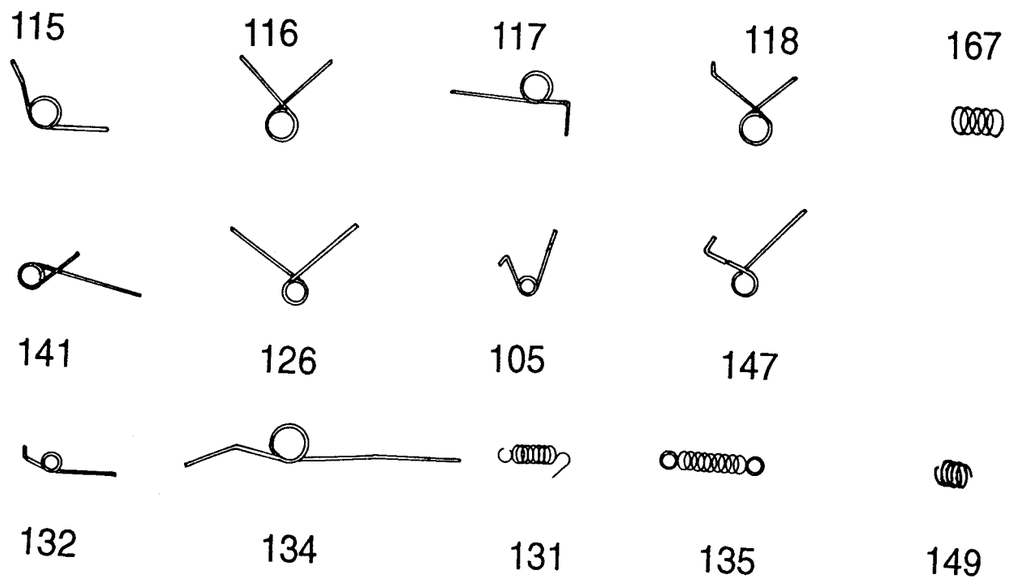
■ SPRING LOCATION





■ SPRING ILLUSTRATION

- The illustration shows the actual size of the springs so it can be used to check their shapes. (The illustration shows the springs separated from the mechanism).



■ M

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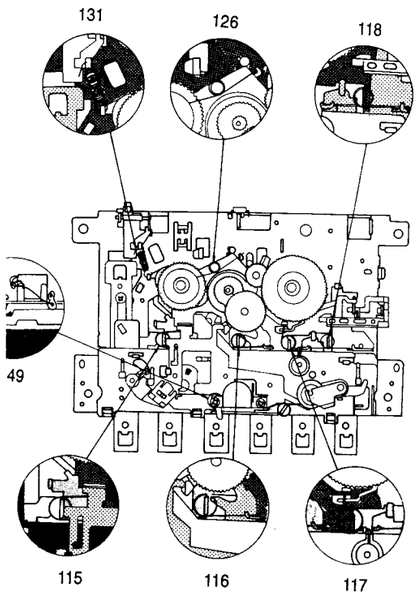
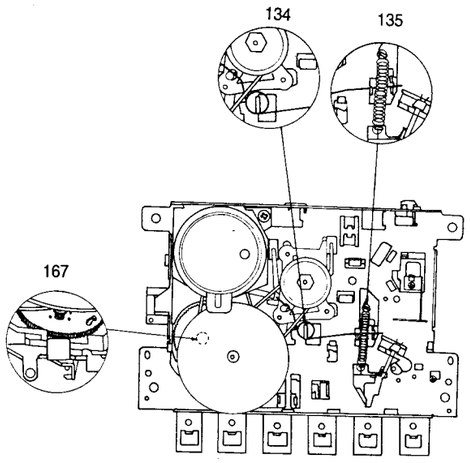
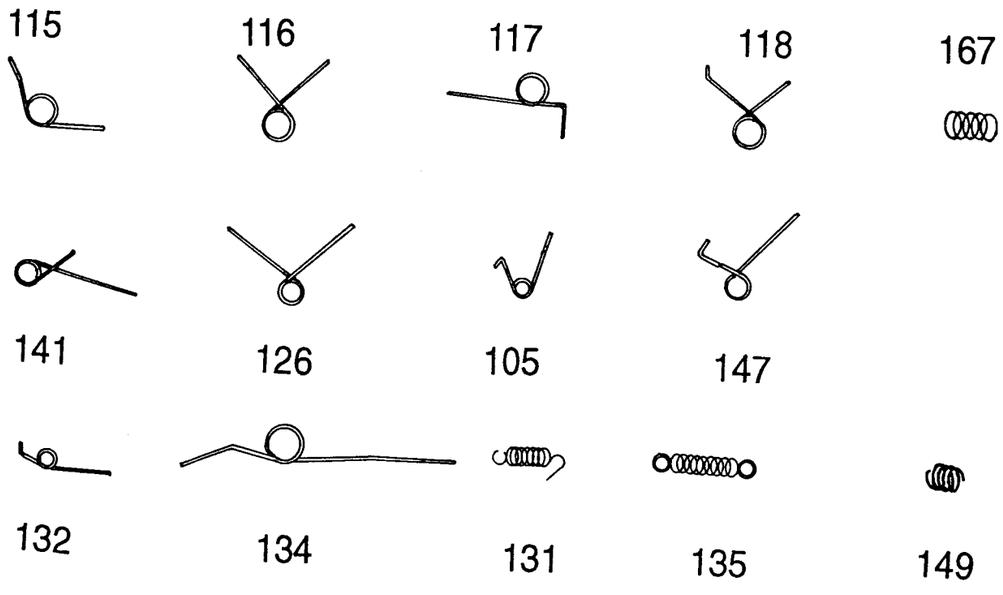
SPRING LOCATION





SPRING ILLUSTRATION

illustration shows the actual size of the springs so it can be used to check their shapes.
e illustration shows the springs separated from the mechanism).



■ MECHANISM PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
101	RFU204ZA	CHASSIS	[M]
102	RFU205ZA	FRAME ASS'Y	[M]
103	RFY1011ZA	FUNCTION PLATE	[M]
104	RFY1012ZA	ARM	[M]
105	RFS927ZA	SPRING	[M]
106	RFY1013ZA	LEVER	[M]
107	RFY1014ZA	LEVER	[M]
108	RFY1015ZA	LEVER	[M]
109	RFY1016ZA	LEVER	[M]
110	RFY1017ZA	LEVER	[M]
111	RFY1018ZA	LEVER	[M]
112	RFY1019ZA	LEVER	[M]
113	RFY1020ZA	ARM	[M]
114	RFE564ZA	SCREW	[M]
115	RFS928ZA	SPRING	[M]
116	RFS929ZA	SPRING	[M]
117	RFS930ZA	SPRING	[M]
118	RFS931ZA	SPRING	[M]
119	RFE565ZA	SCREW	[M]
120	RFB120ZA	BELT	[M]
121	RFY1021ZA	ARM	[M]
122	RFG161ZA	IDLER	[M]
123	RFU206ZA	SPINDLE BASE	[M]
124	RFJ97ZA	TAKE UP REEL ASS'Y	[M]
125	RFJ98ZA	SUPPLY REEL	[M]
126	RFS932ZA	SPRING	[M]
127	RFG162ZA	IDLER	[M]
128	RFY1022ZA	INTER LOCK	[M]
129	RFS933ZA	SPRING	[M]
130	RFY1023ZA	LEVER	[M]
131	RFS934ZA	SPRING	[M]
132	RFS935ZA	SPRING	[M]
133	RFK31ZA	PF IDLER ASS'Y	[M]
134	RFS937ZA	SPRING	[M]
135	RFS938ZA	SPRING	[M]
136	RFY1024ZA	SENSOR	[M]
137	RFU207ZA	AS BASE	[M]
138	RFG163ZA	GEAR	[M]
139	RFY1025ZA	LEVER	[M]
140	RFY1026ZA	LEVER	[M]
141	RFS939ZA	SPRING	[M]
142	RFY1027ZA	SPRING PLATE	[M]
143	RFF88ZA	FLYWHEEL ASS'Y	[M]
144	RFN230ZA	WASHER	[M]
145	RFY1028ZA	ARM	[M]
146	RFR72ZA	PINCH ROLLER	[M]
147	RFS940ZA	SPRING	[M]
148	RFU208ZA	HEAD BASE	[M]
149	RFS941ZA	SPRING	[M]
150	RFE566ZA	SCREW	[M]
151	RFE309ZA	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
152	RFE293ZA	LUG EARTH	
153	RFN222ZA	WASHER	[M]
154	RFY1029ZA	CR LINK	[M]
155	RFY1030ZA	TAPE GUIDE	[M]
156	RFY1031ZA	ARM	[M]
157	RFH39ZA	E HEAD	[M]
158	RFH41ZA	R/P HEAD	[M]
159	RFD442ZA	MOTOR HOLDER	[M]
160	RFE567ZA	SCREW	[M]
161	RFI24ZA	RUBBER	
162	RFE142ZA	SCREW	
163	RFE568ZA	SCREW	[M]
164	RFM184ZA	MOTOR ASS'Y	[M]
165	RFB121ZA	BELT	[M]
166	RFN231ZA	WASHER	[M]
167	RFS943ZA	SPRING	[M]
168	RMCX0003	RECORDING SPRING	[M]
169	XTN2+4F	SCREW	

■ RESISTORS & CAPACITORS

Notes :
* Capacitor values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
* Bracketed indications in Ref. No. columns specify the area (Refer to the first page for area). Parts without these indications can be used for all areas.

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R1	ERDS2TJ220T	22 1/4W
R2	ERDS2TJ470T	47 1/4W
R3	ERDS2TJ101T	100 1/4W
R5	ERDS2TJ101T	100 1/4W
R7	ERDS2TJ103T	10K 1/4W
R8	ERDS2TJ681T	680 1/4W
R9	ERDS2TJ153T	15K 1/4W
R10	ERDS2TJ104T	100K 1/4W
R11	ERDS2TJ563T	56K 1/4W
R12	ERDS2TJ183T	18K 1/4W
R13	ERDS2TJ562T	5.6K 1/4W
R14	ERDS2TJ470T	47 1/4W
R101	ERDS2TJ103T	10K 1/4W
R102	ERDS2TJ224T	220K 1/4W
R103	ERDS2TJ222T	2.2K 1/4W
R104	ERDS2TJ562T	5.6K 1/4W
R105	ERDS2TJ560T	56 1/4W
R106	ERDS2TJ222T	2.2K 1/4W
R107	ERDS2TJ103T	10K 1/4W
R108	ERDS2TJ102T	1K 1/4W
R109	ERDS2TJ104T	100K 1/4W
R110	ERDS2TJ102T	1K 1/4W
R111	ERDS2TJ822T	8.2K 1/4W
R112	ERDS2TJ822T	8.2K 1/4W
R113	ERDS2TJ223T	22K 1/4W
R114	ERDS2TJ224T	220K 1/4W
R115	ERDS2TJ332T	3.3K 1/4W
R116	ERDS2TJ104T	100K 1/4W
R117	ERDS2TJ472T	4.7K 1/4W
R118	ERDS2TJ151T	150 1/4W
R120	ERDS2TJ221T	220 1/4W
R121	ERDS2TJ822T	8.2K 1/4W
R123	ERDS2TJ103T	10K 1/4W
R201	ERDS2TJ103T	10K 1/4W
R202	ERDS2TJ224T	220K 1/4W
R203	ERDS2TJ222T	2.2K 1/4W
R204	ERDS2TJ562T	5.6K 1/4W
R205	ERDS2TJ560T	56 1/4W
R206	ERDS2TJ222T	2.2K 1/4W
R207	ERDS2TJ103T	10K 1/4W
R208	ERDS2TJ102T	1K 1/4W
R209	ERDS2TJ104T	100K 1/4W
R210	ERDS2TJ102T	1K 1/4W
R211	ERDS2TJ822T	8.2K 1/4W
R212	ERDS2TJ822T	8.2K 1/4W
R213	ERDS2TJ223T	22K 1/4W
R214	ERDS2TJ224T	220K 1/4W
R215	ERDS2TJ332T	3.3K 1/4W
R216	ERDS2TJ104T	100K 1/4W
R217	ERDS2TJ472T	4.7K 1/4W
R218	ERDS2TJ151T	150 1/4W
R220	ERDS2TJ221T	220 1/4W
R221	ERDS2TJ822T	8.2K 1/4W
R223	ERDS2TJ103T	10K 1/4W
R301	ERDS2TJ121T	120 1/4W
R302	ERDS2TJ181T	180 1/4W
R303	ERDS2TJ222T	2.2K 1/4W
R304	ERDS2TJ222T	2.2K 1/4W
R305	ERDS2TJ222T	2.2K 1/4W
R306	ERDS2TJ103T	10K 1/4W
R307	ERDS2TJ103T	10K 1/4W
R308	ERDS2TJ103T	10K 1/4W
R309	ERDS2TJ103T	10K 1/4W
R310	ERDS2TJ223T	22K 1/4W
R311	ERDS2TJ104T	100K 1/4W
R316	ERDS2TJ472T	4.7K 1/4W
R317	ERDS2TJ222T	2.2K 1/4W
R318	ERDS2TJ334T	330K 1/4W
R319	ERDS2TJ223T	22K 1/4W
R320	ERDS2TJ103T	10K 1/4W
R321	ERDS2TJ470T	47 1/4W
R323	ERDS2TJ680T	68 1/4W
R324	ERDS2TJ680T	68 1/4W
R325	ERDS2TJ332T	3.3K 1/4W
R328	ERDS2TJ332T	3.3K 1/4W
R401	ERDS2TJ222T	2.2K 1/4W
R402	ERDS2TJ104T	100K 1/4W
R403	ERDS2TJ104T	100K 1/4W
R404	ERDS2TJ102T	1K 1/4W
R405	ERDS2TJ273T	27K 1/4W
R407	ERDS2TJ222T	2.2K 1/4W
R408	ERDS2TJ273T	27K 1/4W
R409	ERDS2TJ562T	5.6K 1/4W
R410	ERDS2TJ222T	2.2K 1/4W
R411	ERDS2TJ221T	220 1/4W
R415	ERDS2TJ474T	470K 1/4W
R416	ERDS2TJ104T	100K 1/4W
R419	ERDS2TJ102T	1K 1/4W
R420	ERDS2TJ222T	2.2K 1/4W
R421	ERDS2TJ332T	3.3K 1/4W
R422	ERDS2TJ681T	680 1/4W
R423	ERDS2TJ273T	27K 1/4W
R424	ERDS2TJ101T	100 1/4W
R425	ERDS2TJ8R2T	8.2 1/4W
R426	ERDS2TJ474T	470K 1/4W
R427	ERDS2TJ101T	100 1/4W
R429	ERDS2TJ332T	3.3K 1/4W
R430	ERDS2TJ222T	2.2K 1/4W
R431	ERDS2TJ221T	220 1/4W
R432	ERDS2TJ334T	330K 1/4W
R433	ERDS2TJ103T	10K 1/4W
R434	ERDS2TJ221T	220 1/4W
R435	ERDS2TJ222T	2.2K 1/4W
		CAPACITORS
C1	ECBT1H680J5	68P 50V
C2	ECBT1H100JC5	10P 50V
C3	ECBT1H100JC5	10P 50V
C4	ECBT1H102KB5	0.001 50V
C5	ECBT1H4R7KC5	4.7P 50V
C6	ECBT1H240J5	24P 50V [M]
C7	ECBT1H102KB5	0.001 50V
C8	ECBT1H330J5	33P 50V
C9	ECBT1H200JC5	20P 50V
C10	ECBT1C103MS5	0.01 16V
C11	ECBT1H180JC5	18P 50V
C12	ECBT1H102KB5	0.001 50V
C14	ECBT0J223NS5	0.022 6.3V
C15	ECBT1H102KB5	0.001 50V
C16	ECBT1H470J5	47P 50V
C17	ECBT0J223NS5	0.022 6.3V
C18	ECEA1EU220B	22 25V
C19	ECBT0J223NS5	0.022 6.3V
C20	ECBT0J223NS5	0.022 6.3V
C21	ECQP1H152JZ3	1500P 50V [M]
C22	ECEA1HU3R3B	3.3 50V
C23	ECEA1HU3R3B	3.3 50V
C24	ECBT1H471KB5	470P 50V
C25	ECFR1C473MR	0.047 16V
C26	ECBT0J153MS5	0.015 6.3V
C27	ECEA0JU101B	100 6.3V
C28	ECBT0J223NS5	0.022 6.3V
C29	ECEA0JU221B	220 6.3V
C30	ECBT0J223NS5	0.022 6.3V
C31	ECBT1H6R8KC5	6.8P 50V
C32	ECEA1HU010B	1 50V
C33	ECEA1HK010B	1 50V
C34	ECEA1HUR47B	0.47 50V
C35	ECBT1H102KB5	0.001 50V
C36	ECBT1H681KB5	680P 50V

Ref. No.	Part No.	Values & Remarks	
C101	ECBT1H331KB5	330P	50V
C102	ECBT1H102KB5	0.001	50V
C103	ECEA1AU470B	47	10V
C104	ECFR1C223MR	0.022	16V
C105	ECEA1CU100B	10	16V
C106	ECBT1C332MR5	3300P	16V
C107	ECBT0J223NS5	0.022	6.3V
C108	ECBT1C103MS5	0.01	16V
C111	ECEA1HU010B	1	50V
C112	ECEA1HU010B	1	50V
C113	ECKR1H102KB5	0.001	50V
C114	ECFR1C683MR	0.068	16V
C115	ECEA1HU010B	1	50V
C116	ECEA1HU010B	1	50V
C117	ECEA1HU010B	1	50V
C118	ECBT1H102KB5	0.001	50V
C119	ECFR1C683MR	0.068	16V
C120	ECEA1AU101B	100	10V
C121	ECEA1AU220B	22	10V
C122	ECEA1AU471B	470	10V
C201	ECBT1H331KB5	330P	50V
C202	ECBT1H102KB5	0.001	50V
C203	ECEA1AU470B	47	10V
C204	ECFR1C223MR	0.022	16V
C205	ECEA1CU100B	10	16V
C206	ECBT1C332MR5	3300P	16V
C207	ECBT0J223NS5	0.022	6.3V
C208	ECBT1C103MS5	0.01	16V
C211	ECEA1HU010B	1	50V
C212	ECEA1HU010B	1	50V
C213	ECKR1H102KB5	0.001	50V
C214	ECFR1C683MR	0.068	16V
C215	ECEA1HU010B	1	50V
C216	ECEA1HU010B	1	50V
C217	ECEA1HU010B	1	50V
C218	ECBT1H102KB5	0.001	50V
C219	ECFR1C683MR	0.068	16V
C220	ECEA1AU101B	100	10V
C221	ECEA1AU220B	22	10V
C222	ECEA1AU471B	470	10V
C301	ECBT1H102KB5	0.001	50V
C302	ECBT1C103NS5	0.01	16V
C303	ECFR1C104MR	0.1	16V
C304	ECQP1H152JZ3	1500P	50V [M]
C305	ECBT1C103NS5	0.01	16V
C306	ECBT1C103NS5	0.01	16V
C307	ECBT1C103NS5	0.01	16V
C308	ECBT1C103NS5	0.01	16V

Ref. No.	Part No.	Values & Remarks	
C309	ECBT1C103NS5	0.01	16V
C401	ECKR1H103ZF5	0.01	50V (EB/GN)
C401	ECEA1HN010SB	1	50V (EG)
C402	ECKR1H103ZF5	0.01	50V
C403	ECKR1H103ZF5	0.01	50V
C404	ECKR1H103ZF5	0.01	50V
C405	ECKR1H103ZF5	0.01	50V
C406	ECKR1H103ZF5	0.01	50V
C407	ECKR1H103ZF5	0.01	50V
C408	ECEA1CU222E	2200	16V
C409	ECEA1CU471B	470	16V
C410	ECKR1H103ZF5	0.01	50V
C411	ECEA1AU220B	22	10V
C412	ECEA1AU101B	100	10V
C417	ECBT0J223NS5	0.022	6.3V
C421	ECEA1HU010B	1	50V
C424	ECEA1HU010B	1	50V
C427	ECEA1CU100B	10	16V
C428	ECEA1CU101B	100	16V
C429	ECEA1AU101B	100	10V
C430	ECKR1H103MD5	0.01	50V
C431	ECCR1H181K5	180P	50V
C432	ECQP1272JZ	2700P	100V
C433	ECEA0JU221B	220	6.3V
C434	ECFR1C223MR	0.022	16V
C435	ECBT1C103MS5	0.01	16V
C436	ECEA1HK3R3B	3.3	50V
C437	ECEA1HU0R1B	0.1	50V
C438	ECFR1C223MR	0.022	16V
C439	ECEA1EU4R7B	4.7	10V
C440	ECEA1HU3R3B	3.3	50V
C441	ECBT0J153MS5	0.015	6.3V
C442	ECEA1HU010B	1	50V
C443	ECBT1C103NS5	0.01	16V
C444	ECEA0JU101B	100	6.3V
C446	ECEA1CU470B	47	16V
C447	ECBT1H471KB5	470P	50V
C448	ECBT1C103NS5	0.01	16V
C451	ECEA0JU221B	220	6.3V

Ref. No.	Part No.	Values & Remarks

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